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Derwent Title: **Composite elastic yarn useful for making socks - contg. polyurethane as core crosslinked by polyisocyanate and polyester elastomer as sheath, and prep. by melt composite spinning**

Original Title:  **WO9105088A1: COMPOSITE ELASTIC YARN AND PROCESS FOR PREPARING THE SAME**

Assignee: **KANEBO LTD** Standard company
Other publications from **KANEBO LTD (KANE)...**

Inventor: **FUJIMOTO M; MORISHIGE Y; MURAMOTO Y; YOSHIMOTO K;**

Accession/
Update: **1991-132885 / 200457**

IPC Code: **D01F 6/70 ; B23B 27/00 ; D01F 8/16 ; D01F 8/14 ;**

Derwent Classes: **A94; F01; P54; A25;**

Manual Codes: **A05-G01E(Polyurethanes uses) , A12-S05D(Elastic fibres) , A12-S05E(Other fibres [exc. non-circular, hollow, tapered, conjugate, textured, elastic]) , F01-D07(Polyurethane fibres) , F01-E(Physical characteristics of fibres [others])**

Derwent Abstract: (WO9105088A) A composite elastic yarn which is in a core-sheath arrangement comprises polyurethane as core material and thermoplastic elastomer as sheath material wherein polyurethane is crosslinked at a crosslinking density of 15 (u mol.g) or more, and the composite ratio of core to sheath is 3-100, X and Y satisfying following formula $Y \geq X + 35$. Also claimed is the prep. of the composite yarn which comprises (A) reacting polyol of 2 functional gps with isocyanate of 3 factional gps., the mole ratio of OH gp. in polyol to NCO gp. in isocyanate being 1.7-4; (B) adding the melted prod. from (A) to polyurethane; and then (C) melt composite spinning the mixt. Alternatively, the mole ratio of OH to NCOgp. is 2.1-5. **USE/Advantage** - The yarn is useful for making socks, tricot, swimsuit etc. It is free of stickiness and can be wound at a high speed. Further, the yarn is easy to unravel, and has excellent work-ability.

Dwg.0/1, Dwg.1/1, Dwg.0/0

Family: PDF Patent Pub. Date Derwent Update Pages Language IPC Code

WO9105088A * 1991-04-18 199118 English D01F 8/04

Des. States: (N) JP KR US
(R) AT BE CH DE DK ES FR GB IT LU NL SE

Local appls.:

JP02836978B2 = 1998-12-14 199904 7 English D01F 8/16

Local appls.: Previous Publ. JP04214413 (JP 4214413)

JP1991000041402 Filed:1991-01-18 (91JP-0041402)

 **KR0158668B1** = 1998-12-01 200033 English D01F 8/16

Local appls.: KR1991000700557 Filed:1991-06-03 (91KR-0700557)

☒ CN1040560C = 1998-11-04 200457 English D01F 8/16

Local appls.: CN1990000108981 Filed:1990-10-02 (90CN-0108981)

☒ JP02698475B2 = 1998-01-19 199808 14 English D01F 8/16

Local appls.: Based on WO09105088 (WO 9105088)

JP1990000513162 Filed:1990-10-02 (90JP-0513162)

WO1990JP0001272 Filed:1990-10-02 (90WO-JP01272)

☒ DE69029849E = 1997-03-13 199716 German D01F 8/16

Local appls.: Based on EP00446377 (EP 446377)

Based on WO09105088 (WO 9105088)

EP1990000914438 Filed:1990-10-02 (90EP-0914438)

WO1990JP0001272 Filed:1990-10-02 (90WO-JP01272)

DE1990000629849 Filed:1990-10-02 (90DE-0629849)

☒ EP0446377B1 = 1997-01-29 199710 24 English D01F 8/16

Des. States: (R) DE FR GB IT

Local appls.: Based on WO09105088 (WO 9105088)

EP1990000914438 Filed:1990-10-02 (90EP-0914438)

WO1990JP0001272 Filed:1990-10-02 (90WO-JP01272)

☒ US5171633 = 1992-12-15 199301 14 English B23B 27/00

Local appls.: Based on WO09105088 (WO 9105088)

US1991000687881 Filed:1991-05-30 (91US-0687881)

WO1990JP0001272 Filed:1990-10-02 (90WO-JP01272)

☒ JP04214413A = 1992-08-05 199238 6 English D01F 8/16

Local appls.: JP1991000041402 Filed:1991-01-18 (91JP-0041402)

☒ EP0446377A4 = 1992-03-18 199521 English D01F 8/04

Local appls.: EP1990000914438 (90EP-0914438)

☒ JP02513162X = 1991-10-03 199146 English G10D 7/00

Local appls.: JP1990000007044 Filed:1990-01-18 (90JP-0007044)

EP0446377A = 1991-09-18 199138 English D01F 8/04

Des. States: (R) DE FR GB IT

Local appls.: EP1990000914438 Filed:1990-10-02 (90EP-0914438)

☒ CN1051944A = 1991-06-05 199209 English B07C 5/34

Local appls.:

INPADOC

Legal Status:

Priority Number:

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Application Number	Filed	Original Title
JP1990000007044	1990-01-18	
JP1989000259577	1989-10-03	
JP1989000259578	1989-10-03	

Polymer

Multipunch Codes:

Show polymer multipunch codes

Citations:

PDF	Patent	Original Title
<input checked="" type="checkbox"/>	JP01118619	POLYURETHANE BASED CONJUGATE FIBER
<input checked="" type="checkbox"/>	JP60126322	MANUFACTURE OF BLENDED POLYURETHANE FIBER
	JP80027175	
	JP86014245	
		Msg: No-Citns.

Title Terms:

COMPOSITE ELASTIC YARN USEFUL SOCK CONTAIN POLYURETHANE CORE
CROSSLINK POLY ISOCYANATE POLYESTER ELASTOMER SHEATH
PREPARATION MELT COMPOSITE SPIN

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